KICKER

55 SERIES

LIVIN' LOUD

OWNER'S MANUAL
5530
TWEETER SYSTEMS

KICKER®

SS Series Tweeters Owner's Manual

Model: SS30

Attention:

Please take a moment and record the information asked for below in the provided area. It is also a good idea to attach the original sales receipt or a copy of it to this page for future reference

If for any reason you require service on this system during the warranty period, you will need to provide this information and a copy of the receipt to Kicker to validate your warranty.

ALWAYS KEEP YOUR RECEIPT!

Congratulations!

You have just purchased the most advanced Tweeter system to ever leave the Kicker Livin' Loud Laboratories. Your KICKER SS Series 30 mm Tweeter System is designed and engineered to deliver competition grade sound quality and legendary KICKER durability.

Thanks for buying KICKER. Enjoy.

Dealer Where Purchased: _____

Purchase Date: _____

Model Number: _____

Serial Number: _____

A Brief Plug For The SS Systems And Our Technical Manuals At www.KICKER.com

The SS30 Tweeters are absolutely the best sounding tweeters to ever leave the KICKER Liviní Loud Labs. We dare to say (and we tested quite a few) they are the best sounding tweeters on the market today...period!

There are many state-of-the-art features in these SS30 Tweeters and they are briefly described in the following Features section. If you find yourself awake in the middle of the night with the crave for White Castles and a thirst for more in-depth detail on the SS30 Tweeters then hit our website and download the Technical Manual for the SS30 Component Systems.(Hit your local White Castle for the sliders)

CROSSOVER

• **System Optimized Passive Crossover Network** Provides 24 dB High Pass at 2.8Khz to provide the best protection and sound quality for your tweeter.

• **Air Core Inductors** Provides higher power handling with less ësignal smearí and magnetic saturation when compared to other ëcoreí type inductors.

ï **Mylar Film Filter Capacitors** Used in tweeter crossover section for smooth and extended high frequency response.

ï **Zobel Impedance Compensation** Provides more linear response across the operating range and prevents crossover point shift by correcting impedance rise.

TWEETER

• **DuPont® Tetoron® (Soft Dome) 30mm Diameter Tweeter** Used to provide ultra-wide frequency response. Excellent balance between high and low end frequency response.

• **Ferro-Fluid™ Cooled Voice Coil** Enhances the thermal transfer from voice coil to the motor structure for higher power handling and decreased power compression.

• **Dual Neo Magnets In Tweeter** Top and bottom magnets provide a reduction in overall tweeter size while increasing BL 22% over conventional designs. (Patent Pending)

• **Vented Inner Motor System** The chamber under the tweeter dome is vented to the perimeter of the voice coil with machined channels in the motor structure to minimize dome distortion.

• **Sealed and Tuned Tweeter Enclosure** Provides awesome control as well as smooth and extended upper mid/lower tweeter response from driver.

- **Foam Dispersion and Control Plug** Used behind tweeter dome to control reflected energy and balance air pressure to the tweeter dome. Increases overall dome strength while in operation.

- **Copper Clad Aluminum Voice Coil** Increases efficiency and thermal dissipation (power handling) of the tweeter.

PARTS LIST

Here is a breakdown of the different parts and accessories you will find in the SS Series Tweeters System pack.

TWEETER DRIVER 30 mm soft dome unit for high frequency sound reproduction..

FRONT ANGLE RING 15 ring used on the front side of your mounting panel to direct your tweeters output.

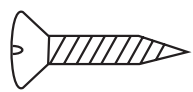
BACK ANGLE RING Used on the back side of your mounting panel to allow Mounting Nut to seat properly.

TWEETER MOUNTING NUT Threads onto the back of your Tweeter to hold it to your mounting panel.

TWEETER CROSSOVER Passive crossover to split the audio signal going to the tweeter.

ALLEN WRENCH Supplied tool used to tighten and loosen wire connections at the crossover.

BEVEL HEAD SCREWS Supplied screws to mount midrange driver and crossover.



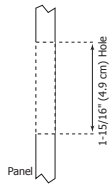
BUTT CONNECTORS Insulated crimp connectors to connect a 16 gauge wire to another 16 gauge wire.

WIRE BUNDLES 2 sets of high quality 16 gauge speaker wire to connect your SS Series Tweeters to the crossover and amplifier.

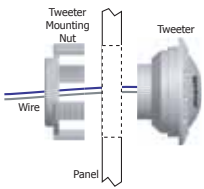
Tweeter Mounting

Your tweeter can be flush mounted into your panel with or without the 15 angle rings.

Cut a 1-15/16 (4.9 cm) hole in your panel for the tweeter. Be sure there is clearance behind the panel for the tweeter and wiring.

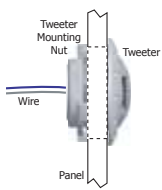


WITHOUT ANGLE RINGS



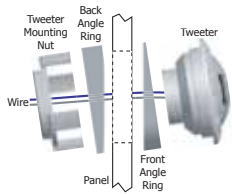
Place the tweeter into the panel and secure by tightening (clockwise) the Tweeter Mounting Nut.

This is what you should end up with after securing the Tweeter to the panel using the Mounting Nut.



If necessary, the legs of the Tweeter Mounting Nut can be cut to fit thicker panels. Trim each leg at the score line. Remove only 1 section from each leg at a time until desired length is achieved.

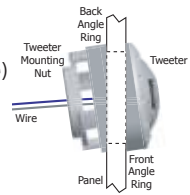
WITH ANGLE RINGS

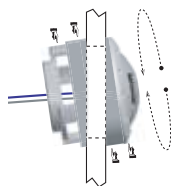


Place the tweeter through the Front Angle Ring and then into the panel.

Next place the Back Angle Ring over the Tweeter and line up the narrow part of the Back Angle Ring with the wide part of the Front Angle Ring for proper operation.

Attach the Tweeter Mounting Nut (clockwise) but do not tighten completely.

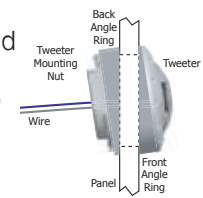




Rotate all the parts in unison until the tweeter is angled in the desired direction.

Secure the assembly by tightening (clockwise) the Tweeter Mounting Nut.

This is what you should end up with after securing the Tweeter to the panel using the Mounting Nut.

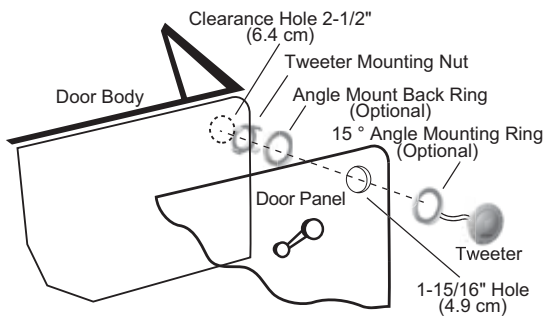


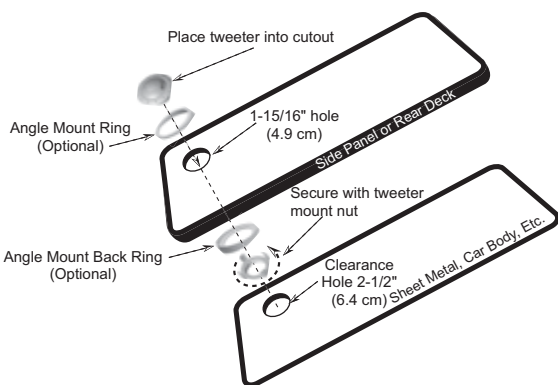
When mounting to a door panel it is best to get the tweeter as high up on the door as possible and as far forward as possible without interference from the dashboard. Be sure the chosen place is flat and space behind the door panel allows the use of the tweeter mounting nut.

Follow the same rules if mounting to a rear deck, side panel or any other custom location. Be sure you have chosen a flat location with plenty of clearance behind it for the necessary wiring and mounting hardware.

After checking for clearance, cut a 1 - 15/16 (4.9 cm) hole in the desired mounting location. It may be necessary to cut a 2 - 1/2î (6.4 cm) clearance hole in any sheet metal or panel behind your chosen mounting panel to allow clearance for the tweeter mounting nut.

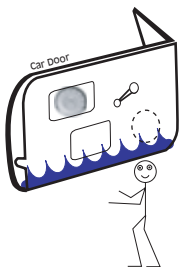
See the diagrams on this page for more details.





Crossover Mounting

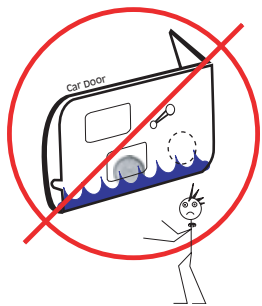
YES



When choosing a location for your crossover keep in mind you will need access to it so you can connect your wiring and. Also, DO NOT place the crossover in any location where it will get wet or be in standing water. This will damage the unit!

The bottom of the car door is not a good location. If you must mount the crossover in the car door, exercise caution as water can accumulate in the bottom of the car door. Keep the crossover high in the door and shielded from water.

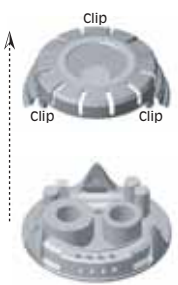
NO!

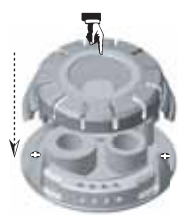


Once you have selected a mounting location, remove the crossoverís top by pulling it straight off the crossover. It is held in place with 3 clips at the indicated locations.

Using the supplied screws and hardware (or other method if required) mount the crossover.

Place the crossover top back on the crossover and press into place.



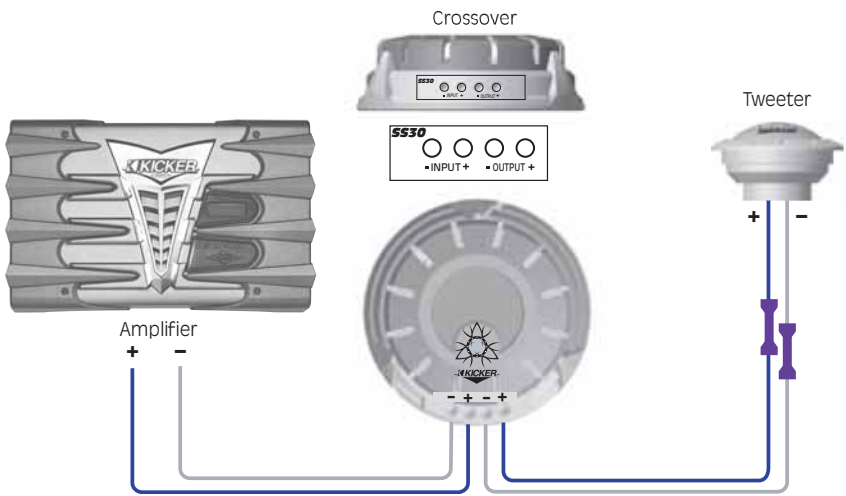


WIRING

There are two sets of high quality 16 Gauge speaker wire supplied with the Kicker SS30 Tweeter Systems. The longest set of wires is for connecting your amplifier or source unit to the crossover network. The shorter pair connects the tweeter output of the crossover to the short wire coming out of the tweeter; join using the supplied butt connectors.

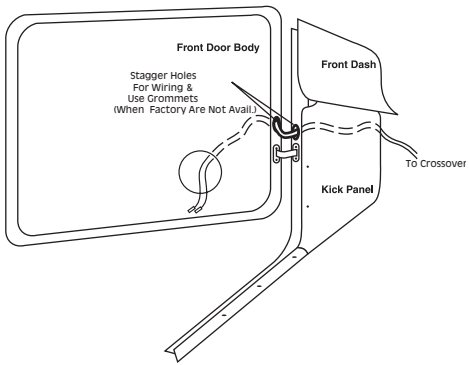
If you wish to use your own wire or need to lengthen the wire to fit your needs, we recommend using at least a 16 gauge wire.

Use the supplied allen wrench to loosen and tighten the connections at the crossover.



When installing the speaker wire into your car be sure to avoid sharp edges and the possibility of it getting pinched. Be careful to keep it out of the path of moving mechanicals such as the steering column, brake pedal, gas pedal, clutch pedal, emergency brake, heater or AC control linkage and any other moving mechanical systems. Be careful when re-installing any kick panel, sill plate or other interior body panel removed to route the wire that you donít damage the wire with attachment clips or screws.

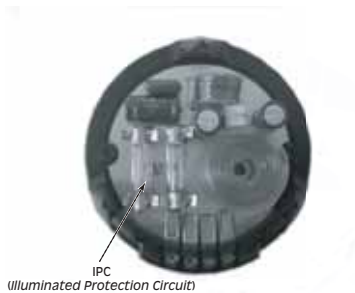
If running the wire into a door, an existing boot in the door jamb is the ideal place to run the wires, but sometimes this does not exist or is inaccessible. Drilling holes to run wires through is very tricky, and caution must be exercised not to drill into other wiring or mechanisms. Any time a wire is run through a bare hole, it is necessary to insert a rubber or plastic grommet to protect the wire.



Adjustments

The SS Series Tweeter Crossover is a very high quality unit designed to offer the best combination of sound quality and driver protection.

The IPC (Illuminated Protection Circuit) is a proven design feature Kicker has used for many years in all our passive crossover networks where tweeters are involved. This circuit protects the tweeter from excessive amplifier power and amplifier clipping. It is normal for these to illuminate during operation.



After reading this manual, if you have any questions about the installation of your Kicker components, visit your local Authorized KICKER Dealer. You may also contact Kicker Technical Services directly by visiting the Support Section of our website at www.kicker.com. Want to talk instead? You can reach us by calling (405)624-8583 and asking for Technical Services.

Performance

MODEL	SS30
Tweeter (in., *cm*)	
Outside Diameter	2-5/16î *6.0*
Mounting Hole	1-15/16î *4.9*
Mounting Depth	1-1/8î *2.9*
Crossover (in., *cm*)	
Outside Diameter	4-5/8î *11.8*
Freq. Resp. (Hz)	2.4k - 22k
Watts Peak	200
Watts RMS	100
Crossover Point (kHz)	2.8k
Crossover Slope (dB/oct)	24 hi
Sensitivity (dB 1W/1M)	87
System Impedance (Ω)	3

ACOUSTICS LIMITED WARRANTY

Kicker warrants this product to be free from defects in material and workmanship under normal use for a period of **THREE (3) MONTHS** from date of original purchase with receipt. When purchased from a Authorized KICKER Dealer it is warranted for **ONE (1) YEAR** from date of original purchase with receipt. In all cases you must have the original receipt! Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the warranty period, Kicker will repair or replace (at its discretion) the defective merchandise with equivalent merchandise at no charge. Warranty replacements may have cosmetic scratches and blemishes. Discontinued products may be replaced with more current equivalent products.

This warranty is valid only for the **original purchaser** and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you.

This warranty gives you specific legal rights; however you may have other rights that vary from state to state.

WHAT TO DO IF YOU NEED WARRANTY OR SERVICE

Defective merchandise should be returned to your local Authorized Stillwater Designs (Kicker) Dealer for warranty. Assistance in locating an Authorized Dealer can be obtained by writing or calling Stillwater Designs direct. You can confirm that a dealer is authorized by asking to see a current authorized dealer window decal.

If it becomes necessary for you to return defective merchandise directly to Stillwater Designs (Kicker), call the Kicker Customer Service Department at (405)624-8510 for a Return Authorization (RMA) number. Package all defective items in the original container or in a package that will prevent shipping damage, and return to

Stillwater Designs, 5021 North Perkins Road, Stillwater, OK 74075

The RMA number must be clearly marked on the outside of the package. Return only defective components. Return of entire cabinets, system packs, pairs, etc. increases your return freight charges. Non-defective items received will be returned freight collect.

Include a dated **proof-of-purchase** stating the Customer name, Dealer name, product purchased and date of purchase.

Warranty expiration on items without proof-of-purchase will be determined from type of sale and the manufacturing date code.

Freight must be prepaid; items received freight collect will be refused.

Failure to follow these steps may void your warranty. Any questions can be directed to the Kicker Customer Service Department at (405)624-8510.

WHAT IS NOT COVERED?

This warranty is valid only if the product is used for the purpose for which it was designed.

It does not cover:

- Damage due to improper installation.
- Subsequent damage to other components.
- Damage caused by exposure to moisture, excessive heat, chemical cleaners,and/or UV radiation.
- Damage through negligence, misuse, accident or abuse. Repeated returns for the same damage may be considered abuse.
- Any cost or expense related to the removal or reinstallation of product.
- Speakers damaged due to amplifier clipping or distortion.
- Items previously repaired or modified by any unauthorized repair facility.
- Return shipping on non-defective items.
- Products with tampered or missing barcode labels.
- Products returned without a Return Authorization (RMA) number.
- Freight Damage.
- The cost of shipping product to Kicker.
- Service performed by anyone other than Kicker.
- Speaker with any foreign caulk used for gasket material.

HOW LONG WILL IT TAKE?

Kicker strives to maintain a goal of 24-hour service for all acoustics (woofers, mids, tweets, etc.) returns. Delays may be incurred if lack of replacement inventory or parts is encountered.

INTERNATIONAL WARRANTY

Contact your International Kicker dealer or distributor concerning specific procedures for your countryís warranty policies.

CE

STILLWATER Designs®

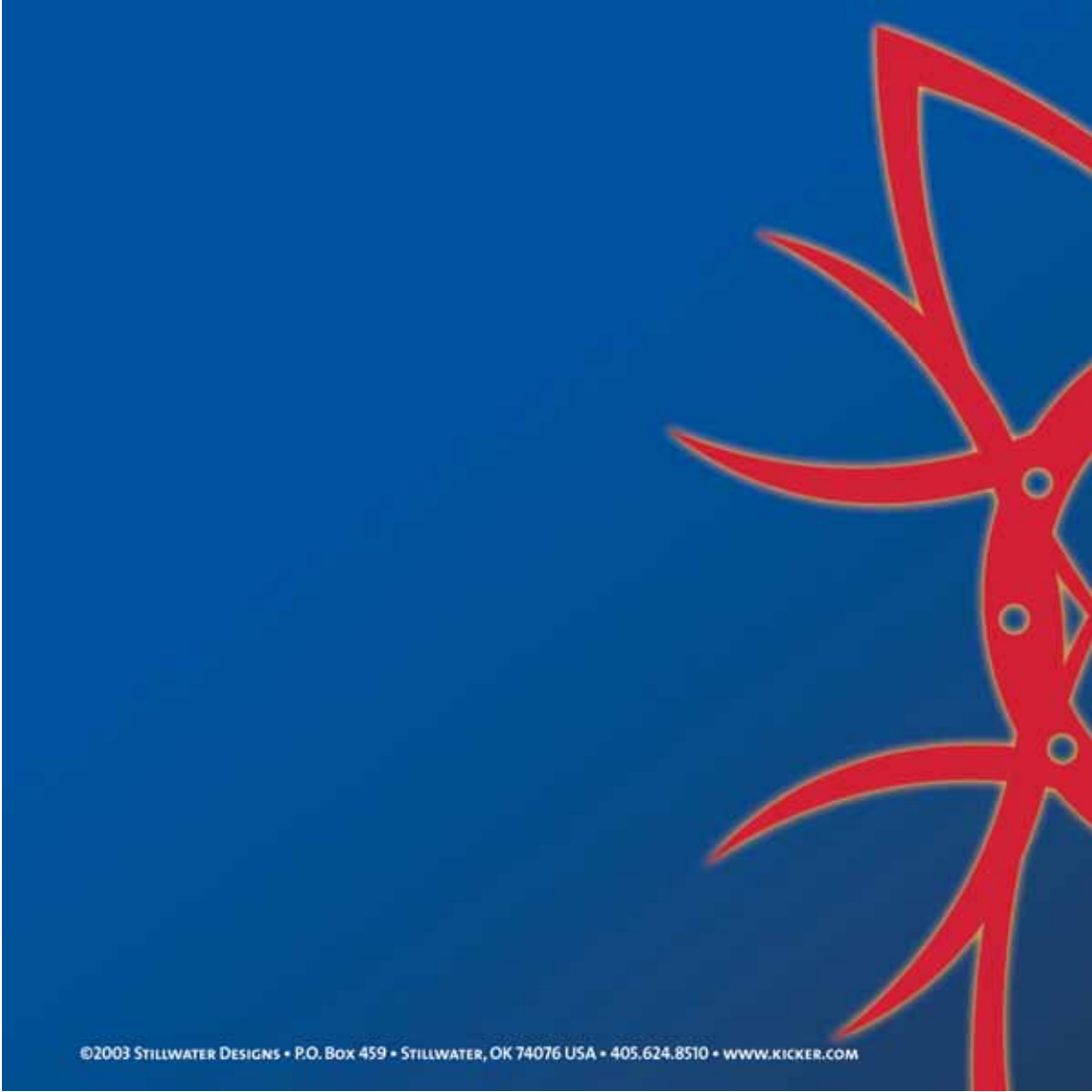
P.O. Box 459 í Stillwater, Oklahoma 74076 í U.S.A.
í 405 624-8510

WARNING:

KICKER drivers are capable of producing sound levels that can permanently damage your hearing! Turning up a system to a level that has audible distortion is more damaging to your ears than listening to an undistorted system at the same volume level. The threshold of pain is always an indicator that the sound level is too loud and may permanently damage your hearing. Please use common sense when controlling volume!

Notes

Earl's Thoughts



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